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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



# **Harness Spreader Report**

Inspection certificate number: MISC\_287.2024

Manufacturer data:

Manufacturer name:

Skywalk GmbH & Co. KG Mr. Arne Wehrlin

Representative: Street:

Windeckstrasse 4

Post code place:

83250 Marquarstein Germany

Sample data:

Name Spreader:

Hybrid Spreader Bar

Max Load [kg]: 240

Serial number:

SA-HSB-V2R9\_005

Date of reception: 08.08.2024

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Test data

Country:

Place of test: Villeneuve
Date of test: 09.08.2024

Inspector:

Alexandre Jofresa

Atmosphere AGL:

[C°] **25** RH [%] **49** 

[hPa] 1008

#### Summary of Spreader's test

Test id	_	Test configuration (2)	Top Att. Point	<b>Bottom Attachement point</b>		Min. Load [N]	Result
1	٧	Induced load from the pilot and a heavy passenger (short) to the main point	Main	Pilot	Short	21600	POSITIVE
2	٧	Induced load from the pilot and a light passenger (long) to the main point	Main	Pilot	Long	21600	POSITIVE
3	V	Induced load from the pilot and a heavy passenger (short) to the rescue point	Rescue	Pilot	Short	21600	POSITIVE
4	٧	Induced load from the pilot and a light passenger (long) to the rescue point	Rescue	Pilot	Long	21600	POSITIVE
5	٧	Induced load from the main point to between the spreader bar	Main	Between the spreader bar		10800	POSITIVE
6	V	Induced load between the two ends of the integreted rescue bridle	Bridle	Bridle		24000	POSITIVE



#### Issue data

Date of issue:

Place of declaration:

Villeneuve

27.09.2024

Managing director:

Signature:

Andrea Wigger

 Manufacturer
 Instrument
 Type no
 S/N
 Validity Calibration

 HBM
 Load Sensor GE01
 1-S9M/50KN-1
 31314643
 23.08.2028

This signature approves the validity of the test reports if available. Air Turquoise SA, having thoroughly assessed the sample mentioned above, declares it was found conform with all requirements defined by the following norms:

Airworthiness Requirements NfL 2-565-20

The model has been tested according to NfL 2-565-20 point 3.2.4, up to 9G of its total weight in flight or at least 1350 daN during 10 seconds.

(1) Calculated values in tests reports include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

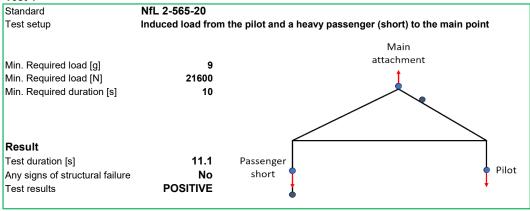
This declaration must not be reproduced in part without the written permission of AIR TURQUOISE SA.

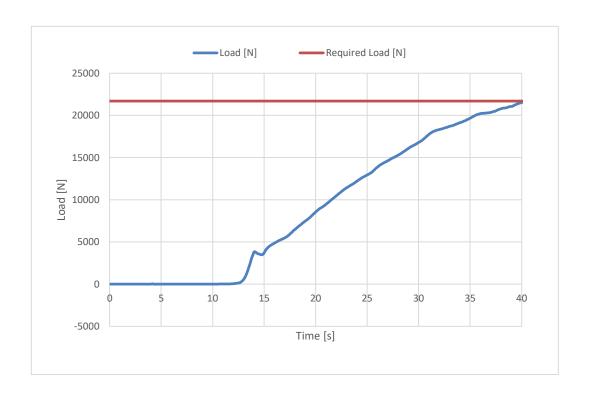
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Test 1



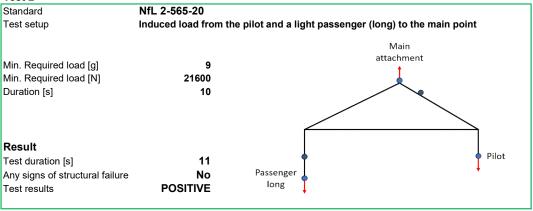


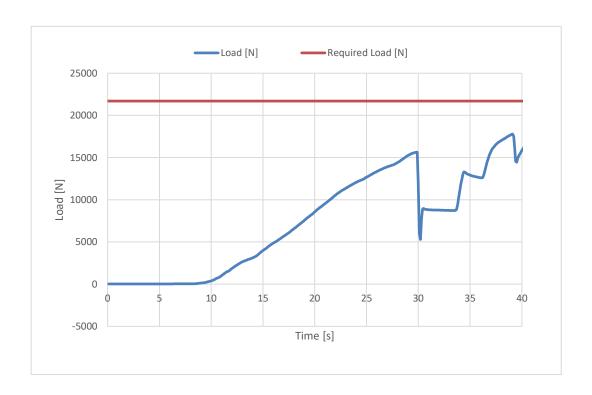
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Test 2



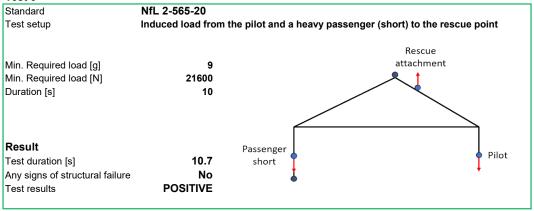


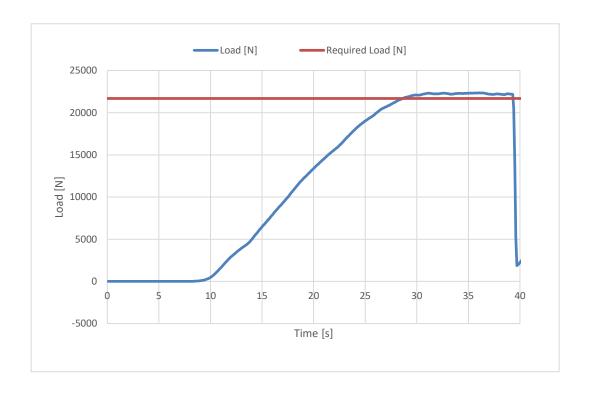
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Test 3



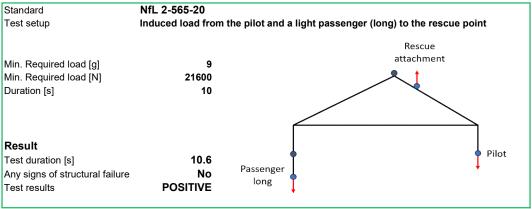


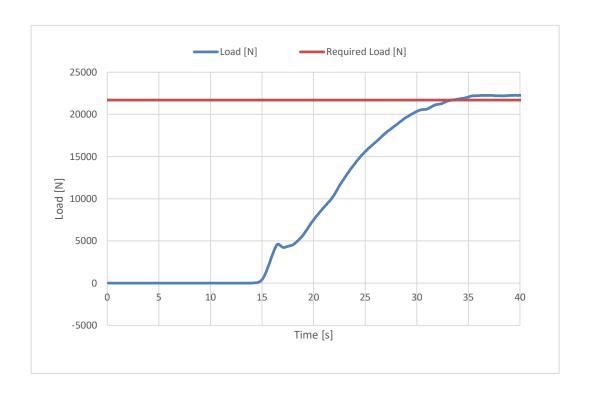
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Test 4



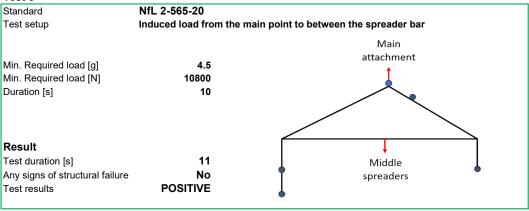


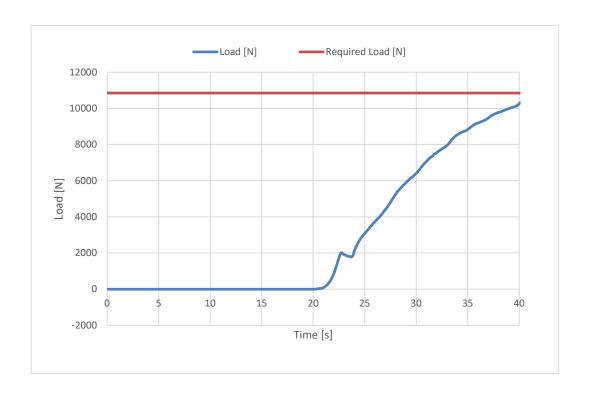
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Test 5





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Inspection certificate number: MISC\_287.2024 Name Spreader Hybrid Spreader Bar

**Harness Structural test** Test ID 11 NfL 2-565-20 Standard Test setup Connecting element for rescue End point (emergency parachute) Attachment points Both attachment to spreader Anchor points Required load [g] n/a 24000 Required load [N] 0.3 Minimum test duration [s] Type of connecting element a) two single el-Result Test duration [s] 4.9 Any signs of structural failure No Test results **POSITIVE** 300±100 300±100 F/2 F/2 a) ь)

